

## Refine Search

### Search Results -

Term	Documents
POSITION	6297148
POSITIONS	2163944
UNIT	4699658
UNITS	1640738
ACQUIR\$3	0
ACQUIR	740
ACQUIRA	3
ACQUIRAD	1
ACQUIRAL	1
ACQUIRB	2
ACQUIRBD	3
(L1 AND ((ACQUIR\$3 ADJ3 POSITION) ADJ5 (DETECT\$3 ADJ UNIT))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Database:

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Search:

L8

Refine Search

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### Search History

DATE: Wednesday, November 09, 2005   [Printable Copy](#)   [Create Case](#)

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                   result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L8</u>	L1 and ((acquir\$3 adj3 position) adj5 (detect\$3 adj unit))	1	<u>L8</u>
<u>L7</u>	L1 and ((calculat\$3 adj3 map\$4 adj information))	3	<u>L7</u>
<u>L6</u>	L1 and ((wafer or semiconductor) and (plate))	122	<u>L6</u>
<u>L5</u>	L1 and ((au or (arithmetic adj unit)) and (calculation))	28	<u>L5</u>
<u>L4</u>	2000124289	2	<u>L4</u>
<u>L3</u>	2003116071	2	<u>L3</u>
<u>L2</u>	L1 and ((incident adj direction) and (opposite adj direction))	2	<u>L2</u>
<u>L1</u>	(map\$4 adj3 (apparatus or system or device)) and (reflect\$3 adj3 light) and (light adj3 project\$3)	286	<u>L1</u>

END OF SEARCH HISTORY

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Generate Collection

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L4: Entry 1 of 2

File: JPAB

Apr 28, 2000

PUB-NO: JP02000124289A

DOCUMENT-IDENTIFIER: JP 2000124289 A

TITLE: HAND OF THIN SUBSTRATE TRANSFER ROBOT

PUBN-DATE: April 28, 2000

## INVENTOR-INFORMATION:

NAME

COUNTRY

KIMATA, KAZUO

INUKAI, YASUHIRO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MECS CORP

APPL-NO: JP10296754

APPL-DATE: October 19, 1998

INT-CL (IPC): H01 L 21/68; B25 J 15/08

## ABSTRACT:

PROBLEM TO BE SOLVED: To reduce an installation space, to decrease the number of sensors, and to shorten the line process unit time, etc., by providing a tip end part of a thin substrate transfer robot hand with an optical mapping/seating confirmation shared sensor, which acts both as an optical mapping sensor and as optical seating confirmation sensor.

SOLUTION: Related to a hand 1, a tip end part of an expansion arm is connected to a base part 2, and a pair of, left and right, holding plates 4A and 4B of drop-in-type which hold a discoidal substrate 3 are held at the base part 2. A pair of, left and right, sensor holding parts 9A and 9B are provided at the tip end part of each of holding plate parts 4A and 4B, and the sensor holding parts 9A and 9B hold an optical mapping/seating confirmation shared sensor 10 which acts both as an optical mapping sensor for detecting the presence of the discoidal thin substrate 3 and as an optical seating confirmation sensor for confirming that the discoidal thin substrate 3 is placed on the hand 1.

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